CALIBRATION OF THE PCB WATER QUALITY MODEL FOR THE DELAWARE ESTUARY FOR PENTA-PCBs AND CARBON

APPENDIX E MODEL CALIBRATION RESULTS: PLOTS OF TEMPORAL AND CUMULATIVE FREQUENCY DISTRIBUTIONS

SHORT TERM SIMULATION RESULTS FOR DELAWARE RIVER ESTUARY CFD AND TEMPORAL PLOTS OF WATER COLUMN BIC, PDC, AND PENTA PCBS

- DATE OF FILE CREATED: 01AUG03 14:39; FILE NUMBER CAL CARBON 0100
- VR = RESUSPENSION RATE BETWEEN WATER COLUMN AND SURFACE SEDIMENT
- CONDITIONS1: VR = 0.10 CM/YR UPPER PART OF ZONE 2; 0.25 CM/YR LOWER PART OF ZONE 2
- CONDITIONS2: VR = 0.75 CM/YR ZONE 3; 0.50 CM/YR ZONE 4; 1.25 CM/YR ZONE 5
- CONDITIONS3: VR = 1.50 CM/YR MOST OF ZONE 6; 0.10 CM/YR ZONE 6 AT BOUNDARY
- PURPOSE: TEMPORAL EXAMINATIONS OF WATER COLUMN BIC, PDC, AND PENTA PCBS ON DATES
- OF AMBIENT SURVEYS AT SELECTED STATIONS IN EACH ZONE
- A LIST OF SURVEY DATES: 3-15-02, 4-11-02, 4-22-02, 5-06-02, 6-19-02
- A LIST OF SURVEY DATES: 8-05-02, 8-19-02, 9-03-02, 9-23-02, 10-08-02, 11-21-02
- A LIST OF SURVEY DATES: 3-10-03, 3-19-03
- SEDIMENT BURIAL TIME STEP: 73 DAYS
- INORGANIC SOLID: INITIAL CONCENTRATION VARYING BY SEGMENT: NO LOAD ASSIGNED
- BIC=BIOTIC ORGANIC CARBON, PDC=PARTICULATE DETRITAL CARBON
- POC = PARTICULATE ORGANIC CARBON
- CFD = CUMULATIVE FREQUENCY DISTRIBUTION
- DERIVED DATA: BIC=CHLOROPHYL* BIC CARBON TO CHLOROPHYL RATIO; PDC=POC-BIC
- BIC SETTLING 0.1 M/DAY; PDC SETTLING 0.5 M/DAY
- RESULTS FOR PENTA PCBS WERE SOLELY BASED ON CARBON CALIBRATION
- NO REFINMENT ON ANY PCB RELATED CONSTANTS AND COEFFICIENTS WERE PERFORMED



















































































































